Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_ Per.: \_\_\_\_\_\_\_\_

**Homework: Parallelogram Proofs Part 2**

Proof of Theorem:  If a parallelogram is a rhombus, then the diagonals are perpendicular.

\*You may use the following pieces of information…

1. A rhombus is a parallelogram with four congruent sides (by definition)

2. A parallelogram contains opposite sides that are parallel to each another (by definition)

3. Diagonals of a parallelogram bisect each other (we’ve proved this theorem so we can use it!)

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| http://www.regentsprep.org/regents/math/geometry/gp9/LRecta1.gif | hombus |